

#3

ARCHITECTURE

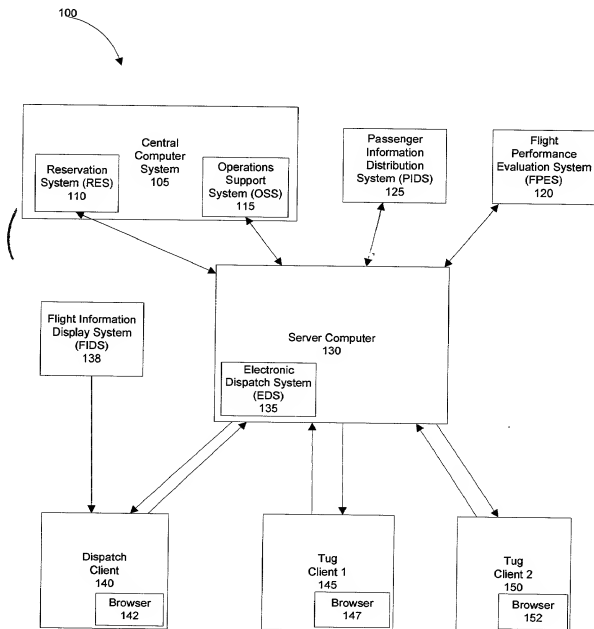


FIG. 1

09778220.042301

09778220.042301

200

ELECTRONIC DISPATCH SYSTEM OVERVIEW

205

Tug Clients
Check-in with
Server Computer

210

Inbound Flight
Approaches with
Passengers and
Baggage

215

Dispatch Client
Receives Inbound
Flight Information
from FIDS

220

Dispatch Client
Sends Inbound
Flight Number to
EDS

225

Flight Data
Retrieved

230

EDS Uses
Data to
Formulate
Assignments
for Drivers

235

EDS Uses
Data to
Formulate
Routes for
Drivers

240

Baggage
Delivered
According to
Routes and
Assignments

FIG. 2

09776220.042301

FLIGHT DATA RETRIEVAL

225

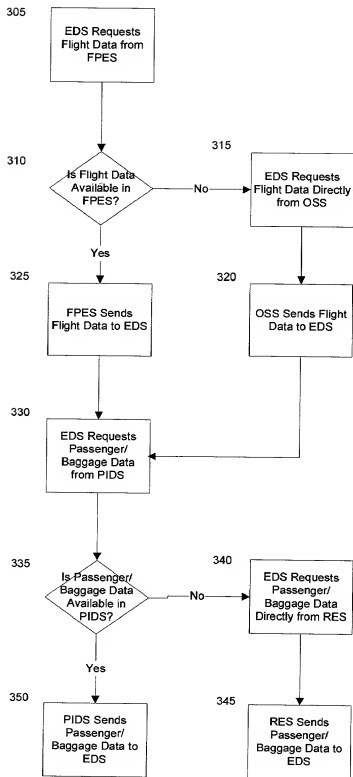


FIG. 3

BAGGAGE DELIVERY ZONES

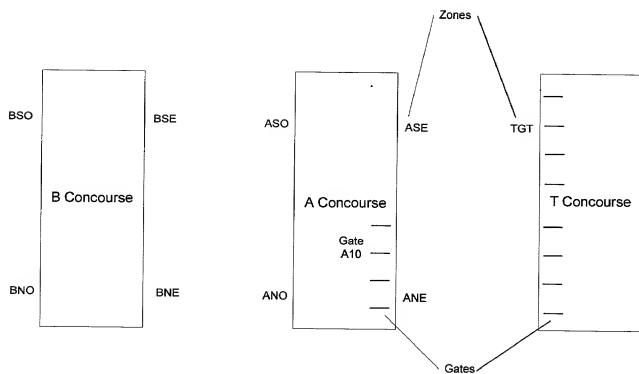


FIG. 4

106240 0228760 09778220 042301

09778220-042301

FORMULATE ASSIGNMENT SOLUTION

230

505

Set Driver, Bag,
and Stop
Parameters for
Assignment
Calculation

510

Create
Possible
Solutions from
Combinations
of Assignments
(See FIG. 6)

515

Calculate Cost
for Each
Solution Using
Assignment
Calculation
(See FIG. 10)

520

Save Solution with
Lowest Cost as
Best Solution

525

Present Best
Solution to
Dispatch Client

FIG. 5

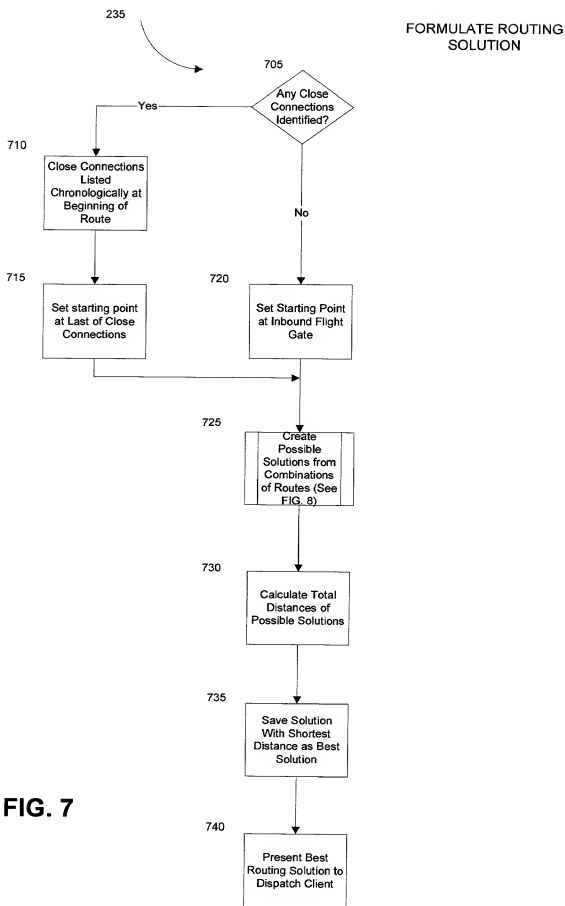


FIG. 7

ROUTING COMBINATIONS

GATE

X, Y

A10

A26

A2

A6

T4

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A31

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A3

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BAGGAGE DELIVERY

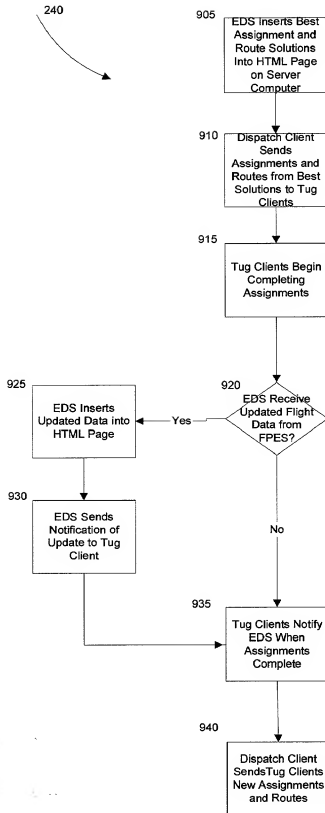


FIG. 9

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ASSIGNMENT COST CALCULATION

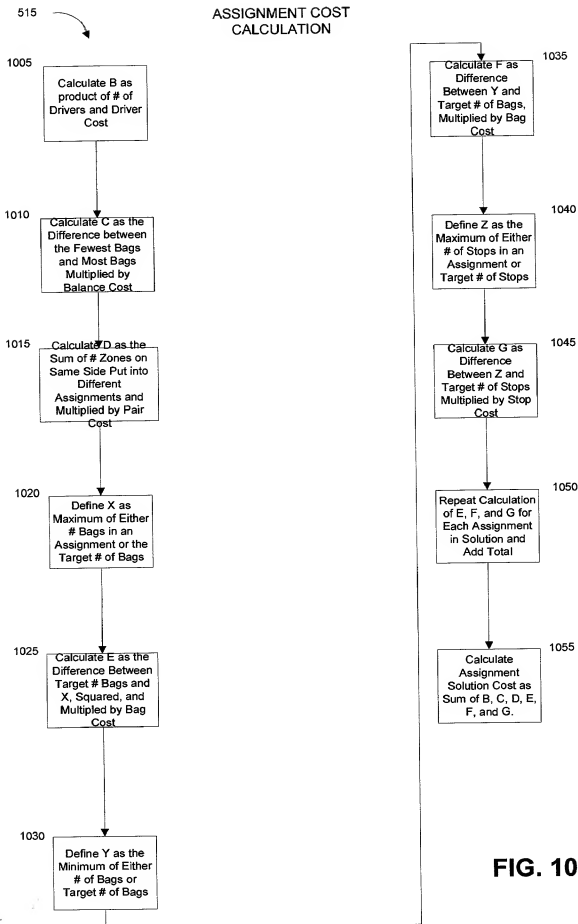


FIG. 10